



1. S. Bolsega, M. Basic, A. Smoczek, M. Buettner, C. Eberl, D. Ahrens, K. A. Odum, B. Stecher, A. Bleich (2019) **Composition of the Intestinal Microbiota Determines the Outcome of Virus-Triggered Colitis in Mice.** *Front. Immunol.* 10:1708.

doi: 10.3389/fimmu.2019.01708

CIT

“ [...] For experiments, mice were maintained in airtight cages with positive pressure (IsoCage P, Tecniplast Deutschland GmbH, Bavaria, Germany) to keep their gnotobiotic status [...] ”.

2. J.-Y. Li, M. Yu, S. Pal, A. M. Tyagi, H. Dar, J. Adams, M. N. Weitzmann, R. M. Jones, R. Pacifici, (2020) **Parathyroid hormone-dependent bone formation requires butyrate production by intestinal microbiota.** *The Journal of Clinical Investigation*, 130: 1767-1781.

<https://doi.org/10.1172/JCI133473>

CIT

“ [...] Experimental GF mice were maintained in a Tecniplast ISOcage P-Bioexclusion System under a strict 12 hours light cycle [...] ”.

3. J. Paik, S. Meeker, C. C. Hsu, A. Seamons, O. Pershutkina, J. M. Snyder, T. Brabb, L. Maggio-Price (2020) **Validation studies for germ-free Smad3^{-/-} mice as a bio-assay to test the causative role of fecal microbiomes in IBD.** *Gut Microbes*, 11: 21-31.

<https://doi.org/10.1080/19490976.2019.1611151>

CIT

“ [...] For fecal transfer studies, mice were transferred into ISOcage P cages (Tecniplast) prior to colonization [...] ”.

4. G. Hecht, C. Bar-Nathan, G. Milite, I. Alon, Y. Moshe, L. Greenfeld, N. Dotsenko, J. Suez, M. Levy, C. A. Thaiss, H. Dafni, E. Elinav, A. Harmelin (2014) **A simple cage-autonomous method for the maintenance of the barrier status of germ-free mice during experimentation.** *Laboratory Animals*, 0(0): 1–6.

doi: 10.1177/0023677214544728

CIT

“ [...] The new possibilities described in this study, involving the use of individual Isocages, enable the use of multiple mutated strains of mice and simultaneous mono-inoculated animal groups. We found this technology to be reliable with an excellent rate of maintenance of germ-freeness.

We believe that this new technology offers an optimal solution for an expansion of the spectra and capabilities of GF mouse experimentation, while offering suitable protection from microbial contamination [...] ”.



5. J. Paik¹, O. Pershutkina, S. Meeker, J. J. Yi, S. Dowling, C. Hsu, A. M. Hajjar, L. Maggio-Price, D. A. C. Beck (2015) **Potential for using a hermetically-sealed, positive-pressured isocage system for studies involving germ-free mice outside a flexible-film isolator.** *Gut Microbes*, 6:4: 255-265.

Doi: [10.1080/19490976.2015.1064576](https://doi.org/10.1080/19490976.2015.1064576)

CIT

“ [...] The isopositive caging system developed by Tecniplast in which cages have their own filtered airflow and are hermetically sealed offer the opportunity to house and perform short and long term studies using germ-free mice.

Generating, maintaining and performing fecal transplant studies in germ-free mice can be expensive, labor-intensive, and technically difficult due to restricted access and manipulation of animals in rigid or flexible film isolators. The isopositive caging system may offer an alternative housing of germ-free mice that has advantages over standard isolators. Ease of accessibility and handling, a smaller footprint, and reduced cost make isopositive caging potentially more suitable for microbiota transplant studies in germ-free rodents [...] ”.

6. H. Q. Tran, A. Bretin, A. Adeshirlarijaney, B. S. Yeoh, M. Vijay-Kumar, J. Zou, T. L. Denning, B. Chassaing, A. T. Gewirtz (2020) **“Western Diet”-Induced Adipose Inflammation Requires a Complex Gut Microbiota.** *Cellular and Molecular Gastroenterology and Hepatology*, 9: 313-333.

<https://doi.org/10.1016/j.jcmgh.2019.09.009>

CIT

“ [...] C57BL/6 ASF mice obtained from the Georgia State University breeding repository and GF mice purchased from Taconic Biosciences (Rensselaer, NY) were housed and used in a Tecniplast (West Chester, PA) IsoCage Bioexclusion System in our GF facility. [...] ”.

7. J. S. You, J. H. Yong, G. H. Kim, S. Moon, K. T. Nam, J. H. Ryu, M. Y. Yoon, S. S. Yoon (2019) **Commensal-derived metabolites govern *Vibrio cholerae* pathogenesis in host intestine.** *Microbiome*, 7: 1-18.

<https://doi.org/10.1186/s40168-019-0746-y>

CIT

“ [...] When necessary, GF mice were transferred to isocages (Tecniplast Inc., Italy) for experimental grouping [...] ”.

8. L. L. Cardoso, P. Durão, M. Amicone, I. Gordo (2019) **Dysbiosis personalizes fitness effect of antibiotic resistance in the mammalian gut.** *BioRxiv*, 1-38.

<https://doi.org/10.1101/748897>

CIT

“ [...] GF mice were bred and raised at the IGC gnotobiology facility in dedicated axenic isolators (La Calhene/ORM). Young adults were transferred into sterile ISOcages (Tecniplast) before the competition experiments. [...] ”



9. C. A. Fontaine, A. M. Skorupski, C. J. Vowles, N. E. Anderson, S. A. Poe, K. A. Eaton (2015) **How free of germs is germ-free? Detection of bacterial contamination in a germ free mouse unit.** *Gut Microbes*, 6:4, 225-233.

Doi: 10.1080/19490976.2015.1054596

CIT

" [...] Germ free and gnotobiotic mice were housed in either Trexler-type soft-sided "bubble" isolators (CBClean), individual Isocages™ (Tecniplast), or sterile microisolator cages in Class IIB biosafety cabinets [...] ".

10. N. Giordano, J. L. Hastie, A. D. Smith, E. D. Foss, D. F. Gutierrez-Munoz, P. E. Carlson (2018) **Cysteine desulfurase IscS2 plays a role in oxygen resistance in Clostridium difficile.** *Infect Immun*, 86: 1-8.

<https://doi.org/10.1128/IAI.00326-18>

CIT

" [...] Germfree mice were housed in Isocages (Tecniplast) and do not require pretreatment with antibiotics [...] ".

11. P. A. Muller, Z. Kerner, M. Schneeberger, D. Mucida (2019) **Microbiota imprint gut-intrinsic neuronal programming and sympathetic activity.** *BioRxiv*.

<https://doi.org/10.1101/545806>

CIT

" [...] C57Bl/6 mice were maintained in germ-free conditions in ISOcage biocontainment isolator cages (Tecniplast, PA, USA) in the gnotobiotic facility at Rockefeller University [...] ".

12. M. Yu, A. M. Tyagi, J.-Y. Li, J. Adams¹, T. L. Denning, M. N. Weitzmann, R. M. Jones, R. Pacifici (2020) **PTH induces bone loss via microbial-dependent expansion of intestinal TNF+ T cells and Th17 cells.** *NATURE COMMUNICATIONS*, 11:468: 1-17.

<https://doi.org/10.1038/s41467-019-14148-4>

CIT

" [...] The GF mice, the SFB mono-associated GF mice, the GF mice colonized with the SFB-JAX microbiome, and the mice colonized with both the SFB- JAX microbiota and SFB were housed in hermetically sealed Tecniplast ISOcage P Bioexclusion System within the EGAC for the duration of the experiment to ensure that no other bacteria enters the microbiome. [...] ".



13. K. Eaton, A. Pirani, E. S. Snitkin, Reproducibility Project: Cancer Biology (2018) **Replication Study: Intestinal inflammation targets cancer-inducing activity of the microbiota.** *eLife*, 7:e34364: 1-19.

<https://doi.org/10.7554/eLife.34364.001>

CIT

“ [...] Mice were aseptically removed from the isolators, randomly assigned to be mono-associated with NC101 or NC101D pks, and housed in sterile isocages (Tecniplast), where they stayed throughout the study [...] ”.

14. A.M. Tyagi, M. Yu, T. M. Darby, C. Vaccaro, J.-Y. Li, J. A. Owens, E. Hsu, J. Adams, M. N. Weitzmann, R. M. Jones, R. Pacifici (2018) **The Microbial Metabolite Butyrate Stimulates Bone Formation via T Regulatory Cell-Mediated Regulation of WNT10B Expression.** *Immunity*, 49: 1116-1131.

<https://doi.org/10.1016/j.immuni.2018.10.013>

CIT

“ [...] GF mice were housed in a Tecniplast ISOcage P – Bioexclusion System within the Emory Gnotobiotic Animal Core [...] ”.

15. M. Wyss, K. Brown, C. A. Thomson, M. Koegler, F. Terra, V. Fan, F. Ronchi, D. Bihan, I. Lewis, M. B. Geuking, K. D. McCoy (2020) **Using Precisely Defined in vivo Microbiotas to Understand Microbial Regulation of IgE.** *Front. Immunol.*, 10: 1-14.

doi: 10.3389/fimmu.2019.03107

CIT

“ [...] For some experiments, mice were housed in individually ventilated isocages (Tecniplast) in the IMC [...] ”.

16. S. Kitamoto, H. Nagao-Kitamoto, Y. Jiao, M. G. Gilliland, A. Hayashi, J. Imai, K. Sugihara, M. Miyoshi, J. C. Brazil, P. Kuffa, B. D. Hill, S. M. Rizvi, F. Wen, S. Bishu, N. Inohara, K. A. Eaton, A. Nusrat, Y. L. Lei, W. V. Giannobile, N. Kamada (2020) **The Intermucosal Connection between the Mouth and Gut in Commensal Pathobiont-Driven Colitis.** *Cell*, 182: 1-16.

<https://doi.org/10.1016/j.cell.2020.05.048>

CIT

“ [...] Gnotobiotic mice were housed in positive-pressure individually ventilated cages (IVC) (ISOcage P, Tecniplast) per each condition to prevent cross-contamination among the different experimental groups [...] ”.